

REMARKS

Claims 1-30 are pending in the application, new claims 20-30 being added by this amendment. Reconsideration and withdrawal of the rejections in view of the amendments and remarks are kindly requested.

REJECTION UNDER 35 U.S.C. § 102

Claims 1-4, 9 and 11-14 stand rejected under 35 U.S.C. § 102(a) as being unpatentable over Hudson (U.S. Pat. No. 5,974,315). This rejection is respectfully traversed, and is further inapplicable to new claims 20-30 as set forth below.

Applicant respectively submits that Hudson fails to teach or suggest a communication method or system in which first and second multiframe structures are arranged in time groups, each time group having a plurality of timeslots, comprising at least:

allocating a plurality of timeslots in each of said time groups to said first information and to said second information so that said first information and said second information are transmitted in timeslots that are different from each other within each time group, and so that said first and second information are transmitted in different timeslots in each of said time groups;

as recited in independent claim 1 and somewhat similarly recited in independent claim 11.

As shown in Figs. 5A-5C of Hudson, there is provided a single control multiframe structure for providing control data to four traffic-multiframes $4k-4k+3$. Within each traffic multiframe, certain frames are assigned certain channel types, e.g. S-BCCH, S-HPACH, etc. However, Figs. 5A-5C of Hudson do not describe the allocation of different multiframe structure types that are time multiplexed on a single frequency carrier over the duration of the entire control super frame.

The present invention provides a method and system in which channels for a single frequency carrier are defined as timeslots in a series of consecutive timeslots (TS0-TS7) that define a frame. The timeslots are grouped in time groups that define a duration on the super frame. Additionally, a plurality of multiframe structure types are defined for the single frequency carrier as including different numbers of consecutive

frames. As shown in Fig. 2, for example, the different multiframe structures on different timeslots are repeating on different periods so as to slide along each other (page 10, lines 11-14 of the specification) given a different frame pattern (F1, F2, F3).

By time multiplexing a plurality of different multiframe structures on a single frequency carrier, different channel types such as traffic, broadcast control and common control channels can be accommodated on the same frequency carrier to enable efficient utilization of frequency resources. Although Hudson may arguably show transmitting different types of information on the same single frequency carrier, this information is generic to each traffic multiframe, there is no time multiplexing of designated information for different multiframe structure types on the same single frequency carrier. Accordingly, Applicants kindly submit that claims 1 and 11 define over Hudson for at least the above reasons. Withdrawal of the rejection is kindly requested.

REJECTIONS UNDER 35 U.S.C. § 103

(a) Claims 6 and 16 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Hudson (U.S. Pat. No. 5,974,315) in view of Massingill, et al. (U.S. Pat. No. 5,933,418). This rejection is respectfully traversed, and is further inapplicable to new claims 20-30 as set forth below.

Massingill, et al. is cited for the limited teaching of a 51 frame multiframe type, but does overcome the deficiencies noted above in Hudson. Applicant submits that claims 6 and 16 are thus allowable at least for the reasons set forth above regarding corresponding claims 1 and 11.

(b) Claims 7 and 17 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Hudson (U.S. Pat. No. 5,974,315) in view of Mazur, et al. (U.S. Pat. No. 6,438,115). This rejection is respectfully traversed, and is further inapplicable to new claims 20-30 as set forth below.

Mazur, et al. is cited for the limited teaching of a 52 frame multiframe type, but does overcome the deficiencies noted above in Hudson and imputed to Massingill et al.

Applicant submits that claims 7 and 17 are thus allowable at least for the reasons set forth above regarding the corresponding independent claims 1 and 11.

(c) Claims 8 and 18 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Hudson (U.S. Pat. No. 5,974,315) in view of Massingill, et al. (U.S. Pat. No. 5,933,418) and in further view of Mazur, et al. (U.S. Pat. No. 6,438,115). This rejection is respectfully traversed, and is further inapplicable to new claims 20-30 as set forth below.

Mazur, et al. is cited for the limited teaching of a 52 frame multiframe type, but does overcome the deficiencies noted above in Hudson and imputed to Massingill et al. Applicant submits that claims 8 and 18 are thus allowable at least for the reasons set forth above regarding the corresponding independent claims 1 and 11.

(d) Claim 19 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Hudson (U.S. Pat. No. 5,974,315) in view of Massingill, et al. (U.S. Pat. No. 5,933,418). This rejection is respectfully traversed, and is further inapplicable to new claims 20-30 as set forth below.

Massingill, et al. is cited for the limited teaching of a 51 frame multiframe type, but does overcome the deficiencies noted above in Hudson. Applicant submits that claims 6 and 16 are thus allowable at least for the reasons set forth above regarding the corresponding independent claims 1 and 11.

ALLOWABLE SUBJECT MATTER

The Examiner states that claims 5, 10, and 15 would be allowable if rewritten in independent form. Accordingly, Applicant has amended these claim into independent form to include the allowable subject matter. Accordingly, Applicant submits that claims 5, 10 and 15 should now be in condition for allowance.

NEW CLAIMS

New claims 20-30 have been added in an effort to provide further protection for Applicant's invention. Applicant submits that new claims 20-30 are allowable at least for reasons somewhat similar to those set forth above regarding claims 1 and 11, and/or for the further features claimed therein.

CONCLUSION

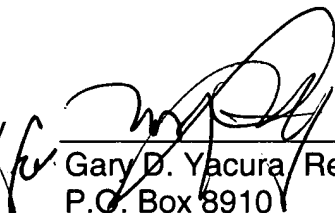
Accordingly, in view of the above amendments and remarks, reconsideration of the objections and rejections and allowance of each of claims 1-30 in connection with the present application is earnestly solicited.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Matthew J. Lattig, Reg. No. 45,274 at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

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